QC ABSTRACT

NAME OF WORK: Construction Culverts in Someshwara Ward No:03 Yelahanka New Town Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	RCC(M20)	Compressive Strength(7days and 28days)	4 sets /31-50 cum	34.87	8	8

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2023-05-23-31 **Date: 24/02/2023**

: Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

: Yelahanka New Town Sub Division, BBMP, Bangalore.

: Construction Culverts in Someshwara Ward No:03 Yelahanka New Town Sub Division

: Sri Hemanth R, No 37, 19th Cross 1st N Block, Bangalore North, Bangalore-560010

erence : BBMP/EE/YNK.D/EPMT-12/W.O/91/2022-23

le : Sample supplied by Agency

on : Satisfactory

: 20-02-23

: Culvert Side Wall Concrete

ce : 150X150X150 mm

ge : M20 / 7 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

codes

: 24/02/2023

ation k	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
le Wall ete	M20	17/02/2023	24/02/2023	149.46 X 150.92 X 151.72	22556	8.849	412.7	18.3	18.5
le Wall ete	M20	17/02/2023	24/02/2023	151.46 X 151.12 X 150.79	22889	8.619	420.1	18.4	
le Wall ete	M20	17/02/2023	24/02/2023	151.15 X 150.14 X 150.56	22694	8.319	430.1	19.0	

ed are satisfactory as per standard requirements.

o the samples received and tested.
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-23-31
Date: 24/02/2023

Customer : Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Address : Yelahanka New Town Sub Division, BBMP, Bangalore.

Project Name : Construction Culverts in Someshwara Ward No:03 Yelahanka New Town Sub Division

Agency : Sri Hemanth R, No 37, 19th Cross 1st N Block, Bangalore North, Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/91/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-02-23

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	17/02/2023	24/02/2023	149.46 X 150.92 X 151.72	22556	8.849	412.7	18.3	18.5
2	Culvert Side Wall Concrete	M20	17/02/2023	24/02/2023	151.46 X 151.12 X 150.79	22889	8.619	420.1	18.4	
3	Culvert Side Wall Concrete	M20	17/02/2023	24/02/2023	151.15 X 150.14 X 150.56	22694	8.319	430.1	19.0	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-23-31

Date: 17/03/2023

Customer : Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Address : Yelahanka New Town Sub Division, BBMP, Bangalore.

Project Name : Construction Culverts in Someshwara Ward No:03 Yelahanka New Town Sub Division

Agency : Sri Hemanth R, No 37, 19th Cross 1st N Block, Bangalore North, Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/91/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-02-23

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	17/02/2023	17/03/2023	149.91 X 150.21 X 149.73	22518	8.565	518.8	23.0	22.9
2	Culvert Side Wall Concrete	M20	17/02/2023	17/03/2023	149.91 X 150.21 X 149.30	22518	8.410	498.5	22.1	
3	Culvert Side Wall Concrete	M20	17/02/2023	17/03/2023	151.70 X 149.91 X 150.87	22741	8.209	533.0	23.4	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-23-31 **Date: 24/02/2023**

Customer : Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Address : Yelahanka New Town Sub Division, BBMP, Bangalore.

Project Name : Construction Culverts in Someshwara Ward No:03 Yelahanka New Town Sub Division

Agency : Sri Hemanth R, No 37, 19th Cross 1st N Block, Bangalore North, Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/91/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-02-23

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	17/02/2023	24/02/2023	151.77 X 149.70 X 151.20	22720	8.474	414.6	18.3	18.3
2	Culvert Side Wall Concrete	M20	17/02/2023	24/02/2023	151.49 X 151.85 X 151.30	23003	8.524	420.6	18.3	
3	Culvert Side Wall Concrete	M20	17/02/2023	24/02/2023	150.86 X 149.83 X 151.89	22602	8.826	414.4	18.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/03/2023

Lab ID	:	CP-2023-05-23-31
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction Culverts in Someshwara Ward No:03 Yelahanka New Town Sub Division
Agency	:	Sri Hemanth R, No 37, 19th Cross 1st N Block, Bangalore North, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/91/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-02-23
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	17/02/2023	17/03/2023	151.19 X 151.77 X 149.77	22946	8.716	533.8	23.3	23.0
2	Culvert Side Wall Concrete	M20	17/02/2023	17/03/2023	149.65 X 151.06 X 150.77	22606	8.283	508.4	22.5	
3	Culvert Side Wall Concrete	M20	17/02/2023	17/03/2023	150.86 X 149.81 X 151.58	22601	8.312	522.9	23.1	

* The results obtained are satisfactory as per standard requirements.

Note:

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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2023-05-23-31**	**Date: 20-02-23**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.	
Project Name	:	Construction Culverts in Someshwara Ward No:03 Yelahanka New Town Sub Division	
Agency	:	Sri Hemanth R, No 37, 19th Cross 1st N Block, Bangalore North, Bangalore-560010	
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/91/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	15-02-23	
Sample Type /Size	:	Precast Cover Slab (230mm)	
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete	
Date of test	:	15/02/2023	
Grade of Slab	:	M25	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.32	230.48	2.816	4695	130.9	27.9	25.9	32.4
2	Cover Slab-2	77.64	230.52	2.822	4733	133.9	28.3	26.3	32.9
3	Cover Slab-3	77.81	230.51	2.818	4754	131.5	27.7	25.7	32.2

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-05-23-31** **Date: 21/02/2023**

Customer : Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Address : Yelahanka New Town Sub Division, BBMP, Bangalore.

Project Name : Construction Culverts in Someshwara Ward No:03 Yelahanka New Town Sub Division

Agency : Sri Hemanth R, No 37, 19th Cross 1st N Block, Bangalore North, Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/91/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-02-23

Customer ID : Culvert Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M20	14/02/2023	21/02/2023	149.60 X 149.41 X 149.63	22351	8.848	421.2	18.8	18.9
2	Culvert Bottom Raft Concrete	M20	14/02/2023	21/02/2023	150.20 X 149.91 X 151.92	22516	8.598	427.0	19.0	
3	Culvert Bottom Raft Concrete	M20	14/02/2023	21/02/2023	151.86 X 149.62 X 150.63	22721	8.415	426.0	18.7	

* The results obtained are satisfactory as per standard requirements.

Note:

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Authorized Signatory
Quality Manager

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TEST REPORT OF

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TORY AS PER ISO/IEC 17025:2017

BANGALORE -3

Certificate No.: TC-5548

Lab ID	:	CP-2023-05-23-31
Customer	:	Assistant Executive Engineer, Yelahanka Ne
Address	:	Yelahanka New Town Sub Division, BBMP,
Project Name	:	Construction Culverts in Someshwara Ward
Agency	:	Sri Hemanth R, No 37, 19th Cross 1st N Blo
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/91/2022
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-02-23
Customer ID	:	Culvert Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests
Date of test	:	14/03/2023

Format No: CP/TF/01

NCRETE CUBES

Date: 14/03/2023

Town Sub Division, BBMP, Bangalore.

Bangalore.

lo:03 Yelahanka New Town Sub Division

k, Bangalore North, Bangalore-560010

23

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross section area (Sq.m	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Culvert Bottom Raft Concrete	M20	14/02/2023	14/03/2023	149.90 X 149.05 X 149.52	223	8.880	531.5	23.8	23.3
2	Culvert Bottom Raft Concrete	M20	14/02/2023	14/03/2023	151.75 X 149.89 X 149.88	227	8.251	501.4	22.0	
3	Culvert Bottom Raft Concrete	M20	14/02/2023	14/03/2023	149.31 X 151.20 X 150.44	225	8.637	540.6	23.9	

for Strength of Concrete Cl.5

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CO

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-05-23-31** **Date: 06-02-23**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction Culverts in Someshwara Ward No:03 Yelahanka New Town Sub Division
Agency	:	Sri Hemanth R, No 37, 19th Cross 1st N Block, Bangalore North, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/91/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-02-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-02-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	374	374	2.5	97.5	90-100
3	20 mm	6738	7112	47.4	52.6	30-70
4	10 mm	5274	12386	82.6	17.4	10-35
5	4.75 mm	2081	14467	96.4	3.6	0-5
6	Pan	533	15000	100.0	0	---

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-05-23-31** **Date: 06-02-23**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore
Project Name	:	Construction Culverts in Someshwara Ward No 03 Yelahanka New Town Sub Division
Agency	:	Sri Hemanth R, No 37, 19th Cross 1st N Block, Bangalore North, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/91/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-02-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-02-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.15	–
2	Finess by Air permeablity method (m^2/kg,Min)	282.2	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-05-23-31** **Date: 06-02-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.94	–
2	Specific Gravity	2.55	–
3	Material finer than 75 micron(%)	6.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-05-23-31** **Date: 06-02-23**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction Culverts in Someshwara Ward No:03 Yelahanka New Town Sub Division
Agency	:	Sri Hemanth R, No 37, 19th Cross 1st N Block, Bangalore North, Bangalore-560010
Customer Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/91/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-02-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-02-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	159	159	3.2	96.8	90-100
3	10 mm	2541	2700	54.0	46.0	25-55
4	4.75 mm	2117	4817	96.3	3.7	0-10
5	Pan	183	5000	100	0	-

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2023-05-23-31** **Date: 04-02-23**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction Culverts in Someshwara Ward No:03 Yelahanka New Town Sub Division
Agency	:	Sri Hemanth R, No 37, 19th Cross 1st N Block, Bangalore North, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/91/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-02-23
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	03-02-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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